

PRODUCT DATASHEET

HQL LED ALU PERFORMANCE 6000LM 41W 840 E27

HQL LED ALU PERFORMANCE | LED replacement for HQL lamps in demanding outdoor applications



PERFOR-
MANCE
CLASS

Areas of application

- Streets
- Area lighting
- Pedestrian zones
- Parks
- Outdoor applications only in suitable luminaires

Product benefits

- Saves up to 78 % energy when used as replacement for mercury vapor lamps (HQL)
- Low maintenance costs thanks to long lifetime
- Instant 100 % light, no warm-up time

Product features

- Replacement for HQL: Suitable for operation with conventional control gear (CCG) for HQL or 230 V mains
- Replacement for other HID: Suitable for operation with line voltage without control gear
- Power factor: 0.9
- Type of protection: IP65
- High surge protection: up to 6 kV (L-N)



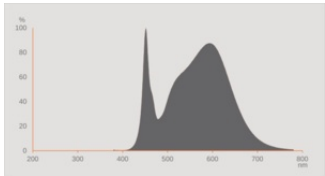
TECHNICAL DATA**Electrical data**

Nominal wattage	41 W
Construction wattage	41.00 W
Nominal voltage	220...240 V
Operating mode	CCG, AC Mains
Claimed equiv. conventional lamp power	125 W
Nominal current	190 mA
Type of current	AC
Inrush current	16.8 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	33
Max. lamp number on MCB B10 A - CCG without compensation	26
Max. lamp number on MCB B10 A - CCG with compensation	23
Max. lamp number on MCB B16 A	52
Max. lamp number on MCB B16 A - CCG without compensation	42
Max. lamp number on MCB B16 A - CCG with compensation	37
Total harmonic distortion	20 %
Power factor λ	> 0.90
Surge capability (L-N)	6 kV

Photometrical data

Luminous intensity	Not relevant
Luminous flux	6000 lm
Nominal useful luminous flux 90°	6000 lm
Luminous efficacy	146 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	80
Light color	840
Standard deviation of color matching	≤6 sdcn
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1

Stroboscope effect metric (SVM)	0.4
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EPREL data spectral diagram PROF
LEDr 4000K

Light technical data

Beam angle	360 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

Dimensions & Weight

Overall length	195.00 mm
Diameter	80.00 mm
Product weight	440.00 g

Temperatures & operating conditions

Ambient temperature range	-40...+60 °C ¹⁾
Maximum temperature at tc test point	105 °C

1) Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

Lifespan

Lifespan L70/B50 at 25 °C	60000 h
Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	≥ 0.90

Additional product data

Base (standard designation)	E27
Mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	D ¹⁾
Energy consumption	41.00 kWh/1000h
Type of protection	IP65
Standards	CE / EAC / UKCA / ENEC
Photobiological safety group acc. to EN62778	RG0

¹⁾ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

Country-specific categorizations

Order reference	HQL LED P 6000L
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LOGISTICAL DATA

Temperature range at storage	-40...+80 °C
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Energy labelling regulation data acc EU 2019/2015

Lighting technology used	LED
Non-directional or directional	NDLS
Mains or non-mains	MLS
Light source cap-type (or other electric interface)	E27
Connected light source (CLS)	No
Color-tuneable light source	No
Envelope	No
High luminance light source	No
Anti-glare shield	No
Correlated colour temperature type	SINGLE_VALUE
Claim of equivalent power	No
Length	195.00 mm
Height	80.00 mm
Width	80.00 mm
Chromaticity coordinate x	0.382

Chromaticity coordinate y	0.380
R9 Colour rendering index	0.00
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	0.9
LED light source replaces a fluorescent light source	No
EPREL ID	1157792
Model number	AC41494,AC41494

Safety advice

- The bulb may be larger and heavier than the replaced bulb. Before installation it must be checked, if the luminaire and especially the holder is capable of carrying the weight of the lamp. For 90 W types the safety rope included in the packaging needs to be installed.
- Not suitable for operation with ignitors.
- Operation on the capacitor can lead to a reduction of the power factor of the system.
- When installed horizontally, the t_c point of the lamp is located on the top side of the lamp.
- Use in tight luminaires and luminaires with tight reflectors not recommended.
- All electrical connections must be made by a qualified person.

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	HQL LED P
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	HQL LED E27 Gen6
	Declarations of conformity UKCA	HQL LED E40 E27 Gen6
Photometric and lighting design files		Document name
	IES file (IES)	HQL LED P 6000LM 41W 840 E27
	LDT file (Eulumdat)	HQL LED P 6000LM 41W 840 E27
	UGR file (UGR table)	HQL LED P 6000LM 41W 840 E27
	Light distribution curve type polar	HQL LED P 6000LM 41W 840 E27

Photometric and lighting design files		Document name
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K
Tender texts		Document name
	Tender documents	HQL LED P 6000LM 41W 840 E27-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854040740	Folding box 1	105 mm x 105 mm x 255 mm	506.00 g	2.81 dm ³
4099854040757	Shipping box 6	335 mm x 230 mm x 275 mm	3458.00 g	21.19 dm ³

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.